IN THE CLAIMS:

- 1. (CURRENTLY AMENDED) A method for <u>modifying and testing</u> a network protocol
- 2 stack that includes a plurality of protocols, the method comprising:
- executing a test of said network protocol stack using a processing system, the test
- 4 modeling each protocol of said plurality of protocols of said protocol stack as separate
- objects, the test simulating communication between a plurality of devices using said net-
- 6 work protocol stack;
- receiving a command comprising code to modify one of a said plurality of proto-
- 8 cols in <u>said a protocol</u> stack of said network protocol; and
- 9 performing said modification on said one of said plurality of protocols in said pro-
- tocol stack while the test is executing, by changing said separate object corresponding to
- said one of said plurality of protocols in said protocol stack.
- 2. (ORIGINAL) The method of claim 1 wherein said command is received in interpreted
- 2 code.
- 3. (CURRENTLY AMENDED) The method of claim 1 further comprising:
- determining said one of said plurality of protocols in said <u>protocol</u> stack to modify
- responsive to receiving said command.
- 4. (ORIGINAL) The method of claim 1 further comprising:
- determining whether said command is adding a message to said one of said plu-
- 3 rality of protocols; and
- adding said message to said one of said plurality of protocols.

- 5. (ORIGINAL) The method of claim 1 further comprising:
- determining whether said command is to remove a message from said one of said
- 3 plurality of protocols; and
- 4 removing said message from said protocol.
- 6. (ORIGINAL) The method of claim 1 further comprising:
- determining whether said command is to modify an existing message in said one
- of said plurality of protocols;
- removing said existing message from said one of said plurality of protocols; and
- adding a new message to said one of said plurality of protocols including said ex-
- 6 isting message with modifications in said command.
- 7. (CURRENTLY AMENDED) The method of claim 1 further comprising:
- determining whether said command is to modify a state machine of said <u>one of</u>
- 3 <u>said plurality of protocols</u>; and
- 4 modifying said state machine of said one of said plurality of protocols responsive
- 5 to said command.
- 8. (CURRENTLY AMENDED) An apparatus for modifying and testing a network proto-
- 2 col stack that includes a plurality of protocols, the apparatus comprising:
- means for executing <u>a test of said network protocol stack</u>, the test modeling each
- 4 protocol of said plurality of protocols of said protocol stack as separate objects, the test
- simulating communication between a plurality of devices using said network protocol
- 6 stack;

- means for receiving a command comprising code to modify one <u>a-of said plurality</u>
 of protocols in <u>a-said protocol stack-of said network protocol</u>; and
- means for performing said modification on said one of said plurality of protocols in said protocol stack while the test is executing, by changing said separate object corresponding to said one of said plurality of protocols in said protocol stack.
- 9. (ORIGINAL) The apparatus of claim 8 wherein said command is received in interpreted code.
- 10. (CURRENTLY AMENDED) The apparatus of claim 8 further comprising:
- means for determining said one of said plurality of protocols in said <u>protocol</u>
 stack to modify responsive to receiving said command.
- 1 11. (ORIGINAL) The apparatus of claim 8 further comprising:
- means for determining whether said command is adding a message to said one of said plurality of protocols;
- 4 means for adding said message to said one of said plurality of protocols.
- 12. (ORIGINAL) The apparatus of claim 8 further comprising:
- means for determining whether said command is to remove a message from said one of said plurality of protocols; and
- 4 means for removing said message from said protocol.
 - 13. (ORIGINAL) The apparatus of claim 8 further comprising:

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3	said one of said plurality of protocols;
4	means for removing said existing message from said one of said plurality of pro-
5	tocols; and
6	means for adding a new message to said one of said plurality of protocols includ-
7	ing said existing message with modifications in said command.
1	14. (CURRENTLY AMENDED) The apparatus of claim 8 further comprising:
2	means for determining whether said command is to modify a state machine of
3	said one of said plurality of protocols; and
4	means for modifying said state machine of said one of said plurality of protocols
5	responsive to said command.
1	15. (CURRENTLY AMENDED) A computer readable medium carrying one or more in-
2	structions for modifying and testing a network protocol stack that includes a plurality of
3	protocols, the one or more instructions including instructions which executed by one or
4	more processors, cause the one or more processors to perform the method comprising:
5	executing a test of said network protocol stack, the test modeling each protocol of
6	said plurality of protocols of said protocol stack as separate objects, the test simulating
7	communication between a plurality of devices using said network protocol stack;
8	receiving a command comprising code to modify one of a said plurality of proto-
9	cols in said a-protocol stack-of said network protocol; and
10	performing said modification on said one of said plurality of protocols in said pro-
11	tocol stack while the test is executing, by changing said separate object corresponding to
12	said one of said plurality of protocols in said protocol stack.

- 16. (ORIGINAL) The medium of claim 15 wherein said command is received in inter-
- 2 preted code.
- 17. (CURRENTLY AMENDED) The medium of claim 15 wherein said one or more in-
- 2 structions further include instructions which executed by one or more processors, cause
- the one or more processors to performmethod further comprises:
- determining said one of said plurality of protocols in said protocol stack to modify
- responsive to receiving said command.
- 18. (CURRENTLY AMENDED) The medium of claim 15 wherein said one or more in-
- 2 structions further include instructions which executed by one or more processors, cause
- the one or more processors to performmethod further comprises:
- determining whether said command is adding a message to said one of said plu-
- 5 rality of protocols; and
- adding said message to said one of said plurality of protocols.
- 19. (CURRENTLY AMENDED) The medium of claim 15 wherein said one or more in-
- 2 structions further include instructions which executed by one or more processors, cause
- the one or more processors to performmethod further comprises:
- 4 determining whether said command is to remove a message from said one of said
- 5 plurality of protocols; and
- 6 removing said message from said protocol.

20. (CURRENTLY AMENDED) The medium of claim 15 wherein said one or more in-1 structions further include instructions which executed by one or more processors, cause 2 the one or more processors to performmethod further comprises: 3 determining whether said command is to modify an existing message in said one 4 of said plurality of protocols; 5 removing said existing message from said one of said plurality of protocols; and 6 adding a new message to said one of said plurality of protocols including said ex-7 isting message with modifications in said command. 8 21. (CURRENTLY AMENDED) The medium of claim 15 wherein said one or more in-1 structions further include instructions which executed by one or more processors, cause 2 the one or more processors to performmethod further comprises: 3 determining whether said command is to modify a state machine of said one of 4 said plurality of protocols; and 5 modifying said state machine of said one of said plurality of protocols responsive 6 to said command. 7 22. (CURRENTLY AMENDED) An apparatus for modifying and testing a network pro-1 tocol stack that includes a plurality of protocols, the apparatus comprising: 2 a memory configured to store instructions; 3 a network connection device configured to provide connectivity to a network; 4 a central processing unit circuitry configured to execute instructions stored in the 5 memory to initiate a test of said network protocol stack, the test simulating communica-6 tion between a plurality of devices using said network protocol, by emulating at least 7 some of the plurality of devices; 8

an input/output (I/O) device circuitry configured to receive a command compris
ing code to modify one of saida plurality of protocols in saida protocol stack-of said net-
work protocol; and
a central processing unit circuitry further configured to perform said modification
on said one of said plurality of protocols in said protocol stack while the test is executing
by changing a data structure corresponding to said one of said plurality of protocols in
said protocol stack.
23. (ORIGINAL) The apparatus of claim 22 wherein said command is received in inter-
preted code.
24. (CURRENTLY AMENDED) The apparatus of claim 22 further comprising:
the central processing unit further eircuitry configured to determine said one of
said plurality of protocols in said stack to modify responsive to receiving said command.
25. (CURRENTLY AMENDED) The apparatus of claim 22 further comprising:
the central processing unit further circuitry configured to determine whether said
command is adding a message to said one of said plurality of protocols; and
the central processing unit further eircuitry configured to add said message to said
one of said plurality of protocols.
26. (CURRENTLY AMENDED) The apparatus of claim 22 further comprising:
the central processing unit further eircuitry configured to determine whether said
command is to remove a message from said one of said plurality of protocols; and

the central processing unit further eircuitry configured to remove said message 4 from said protocol. 5 27. (CURRENTLY AMENDED) The apparatus of claim 22 further comprising: 1 the central processing unit further eircuitry configured to determine whether said 2 command is to modify an existing message in said one of said plurality of protocols; 3 the central processing unit further circuitry configured to remove said existing 4 message from said one of said plurality of protocols; and the central processing unit further eircuitry configured to add a new message to 6 said one of said plurality of protocols including said existing message with modifications 7 in said command. 8 28. (CURRENTLY AMENDED) The apparatus of claim 22 further comprising: 1 the central processing unit further eircuitry configured to determine whether said 2 command is to modify a state machine of said one of said plurality of protocols; and 3 the central processing unit further eireuitry-configured to modify said state ma-4 chine of said one of said plurality of protocols responsive to said command. 5 29. (NEW) The method of claim 1 wherein said performing said modification while the 1 test is executing performs the test absent recompilation of said network protocol stack or 2 restart of the test. 3 30. (NEW) The apparatus of claim 22 wherein the central processing unit is configured to 1 perform said modification while the test is executing absent recompilation of said net-2 work protocol stack or restart of the test.

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